

PRODUCT NAME: MIL-P-19538C Class 2 (36231 Gray)

SECTION X - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: Stable

NO INFLAMMABILITY: Heat, sparks, open flame

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide upon thermal decomposition.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

SECTION XI - PHYSICAL DATA

BOILING POINT: ND

SPECIFIC GRAVITY: ND

MELTING POINT: ND

% VOLATILE BY VOL: ND

VAPOR PRESSURE: ND

EVAPORATION RATE(ETHER=1): ND

VAPOR DENSITY(AIR=1): >1

VISCOSITY: ND

SOLUBILITY negligible
(WATER):

PH: ND

VOC: ND

APPEARANCE/ODOR: Gray viscous liquid with typical solvent odor.

SECTION XII - COMMENTS

Individuals with pre-existing disease in or a history of ailments involving the eyes, skin, respiratory tract, central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

The National Toxicology Program (NTP) has termed that there is sufficient evidence for the carcinogenicity of di(2-ethylhexyl)-phthalate in experimental animals. DEHP given in the diet produced an increased incidence of hepatocellular carcinomas in male and female rats.

Airborne particulates may be generated during removal operations including abrasive blasting, sanding or grinding. SEE SECTION III AND VII.

EMPTY CONTAINERS may retain product residue including flammable or explosive vapors. Do not cut, drill, grind or weld on or near full, partially full or empty product containers.

No known ingredients which occur at greater than 0.1%, other than those listed above, are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

SKIN PROTECTION (protective material): Permeation/degradation values of chemical mixtures cannot be predicted from pure components or chemical classes. Thus, these materials are normally best estimates based on available pure component data. A significant difference in chemical breakthrough time has been reported for generically similar gloves from different manufacturers (AIHA J., 48, 941-947 1987).

Do not use until manufacturer's precautions have been read/understood. When exposed areas promptly and thoroughly after skin contact and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using this product.

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NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Koppers Company makes no warranty with respect thereto and disclaims all liability from reliance thereon.

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SECTION IX - PERSONAL HANDLING INSTRUCTIONS

HAZARD: Avoid prolonged or repeated breathing of vapors, mists or fumes. Avoid prolonged or repeated contact with skin or eyes. Handle and use in accordance with OSHA 29CFR1910.106/local codes. Observe good personal hygiene practices and recommended procedures. Spray paint in accordance with OSHA 29CFR 1910.107.

STORAGE: Store in areas/buildings designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well shaded), dry -ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

OTHER: Ground and bond drums. Do not use pressure to empty drums. Do not wear contaminated clothing. Discard contaminated footwear. Uncontrolled spray application: complete skin/respiratory protection. Keep away from heat and open flame. See SECTION XII (COMMENTS) for additional information.

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SECTION VII - RECOMMENDED EXPOSURE LIMIT/HAZARDOUS INGREDIENTS

EXPOSURE LIMIT (PRODUCT):

*OSHA-PEL 200 ppm, 300 ppm (ceiling), 500 ppm (10 min peak); NIOSH - 200 ppm (10 Hr TWA), 200 ppm (10 min peak)

**NIOSH - reduce exposure to lowest feasible limit

***NIOSH - 400 ppm (10 Hr TWA), 800 ppm (15 min ceiling)

HAZARDOUS INGREDIENTS CAS NUMBER PERCENT EXPOSURE LIMIT (PPM;MG/M3);

Methyl Ethyl Ketone	1338-23-4	<30	ACGIH-TLV	200	590
			ACGIH-STEL	300	885
Methyl n-Amyl Ketone	110-43-0	<10	ACGIH-TLV	50	235
			ACGIH-STEL	150	560
Toluene	108-88-3	<10	ACGIH-TLV	100	375
			ACGIH-STEL	150	560
Isobutyl Acetate	110-19-0	<5	ACGIH-TLV	150	700
			ACGIH-STEL	187	875
			OSHA-PEL	150	700
Ethylene Glycol Monobutyl Ether (skin)	111-76-2	<5	ACGIH-TLV	25	120
			ACGIH-STEL	-	5
Diocetyl Phthalate**	117-81-7	<5	ACGIH-TLV	-	5
			ACGIH-STEL	-	10
			OSHA-PEL	-	5
Titanium Dioxide	13463-67-7	<10	ACGIH-TLV	-	10
			OSHA-PEL	-	15
Talc	14807-96-6	<10	ACGIH-TLV	-	2
			OSHA-PEL	-	20mppcf
Amorphous Silicon Dioxide	68855-54-9	<5	ACGIH-TLV	-	10
			OSHA-PEL	-	20mppcf
Isopropyl Alcohol***	67-63-0	<5	ACGIH-TLV	400	980
			ACGIH-STEL	500	1225
			OSHA-PEL	400	980

SECTION VIII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Industrial safety glasses, minimum. When needed for 29 CFR 1910.133 (work area conditions), use side shields, goggles and/or faceshield. Chemical goggles; face shield (if splashing is possible).

SKIN PROTECTION:

As required, industrial resistant flexible-type gloves (heavy-duty neoprene or equal - see Section XII).

Wear industrial-type work clothing and safety footwear.

Depending on working conditions, i.e., contact potential, wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

RESPIRATORY PROTECTION: If ventilation does not maintain inhalation exposures below PEL(TLV), use MSHA/NIOSH approved units as per current 29 CFR 1910.134, Instructions/Warnings and NIOSH-Respirator Decision Logic-Pub.#87.108. If within OSHA protection factor, air purifying OV/filter units OK.

VENTILATION: Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA requirements/NIOSH publication 87-113 "...Confined Spaces".

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SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with large amounts of water for 15 minutes. Seek medical aid.

SKIN CONTACT: Wash thoroughly with soap and water. If persistent irritation occurs, seek medical aid. Wash contaminated clothing before reuse.

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

INGESTION: Do not induce vomiting. Give 1 glass of milk or 1 to 2 oz (30 to 50g) of activated charcoal in water to victim as tolerated. Immediately seek medical aid. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: There is no specific antidote for effects from overexposure to this material. Treatment should be directed at the control of symptoms and the clinical condition.

SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT & METHOD: -5 C/23 F

AUTOIGNITION TEMP: ND

FLAMMABLE LIMITS (% BY VOLUME/AIR):

LOWER: ND

UPPER: ND

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, water spray, alcohol or universal type foams as per manufacturer's recommendations. Water may be ineffective.

FIRE-FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

FIRE AND EXPLOSION HAZARDS: Heat/fire conditions: vapors form flammable/explosive mixtures in air. Vapors heavy, may travel (ground, pit, sewer) to ignition source-flash. Open/closed containers may contain flammable/explosive vapors. Under fire conditions, may emit irritant/toxic gas and/or fumes. Closed containers may explode when exposed to extreme heat (fire).

SECTION VI - SPILL, LEAK AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES (PRODUCT): Stop spill/leak if no risk involved. Eliminate ALL sources of ignition. Ventilate area. Avoid breathing vapors. Avoid contact with hot liquid and fumes. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. The reportable quantity is This product released into the environment must be reported to the National Response Center (1 800-424-8802). The reportable quantity (RQ) is triggered when any amount is released from a package of 21.88 or more pounds

DOT REPORTABLE QUANTITIES

1000 lbs. Toluene

5000 lbs. Methyl Ethyl Ketone

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

ATERIAL
AFETY
ATA
HEET

K O P P E R S

MEDICAL EMERGENCIES: 1 800-333-3000

IN PENNSYLVANIA: 1 800-323-6571

OUTSIDE U.S.A. 412-227-2000
CHEMTREC ASSISTANCE: 1 800-424-9300KOPPERS COMPANY, INC.
36 EIGHTH AVENUE
PITTSBURGH, PA. 15219

CUSTOMER SERVICE: 1 800-556-7737

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: MIL-P-19538C Class 2 (36231 Gray)

COMMODITY NUMBER:

SYNONYM: L1488-66

CHEMICAL FAMILY: Nitrocellulose Lacquer

FORMULA: Mixture

CAS NUMBER: None

DOT PROPER SHIPPING NAME: Paint

DOT HAZARD CLASS: Flammable liquid

UN/NA NUMBER: UN 1263

SECTION II - HEALTH/SAFETY ALERT

WARNING
FLAMMABLEMAY CAUSE IRRITATION TO SKIN AND EYES
AVOID PROLONGED OR REPEATED BREATHING OF VAPOR
USE WITH ADEQUATE VENTILATIONAVOID PROLONGED AND/OR REPEATED CONTACT
OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT
DO NOT USE THIS PRODUCT UNTIL MSDS HAS BEEN READ AND UNDERSTOOD

SECTION III - HEALTH HAZARD INFORMATION

EYE: Direct contact or contact with vapors may cause irritation.

SKIN: Prolonged and/or repeated contact may cause defatting characterized by dermatitis, dryness, cracking or blistering. May be absorbed through the skin leading to systemic effects.

INHALATION: Prolonged and/or repeated inhalation of high concentrations of vapors may cause central nervous system depression characterized by headache, dizziness, nausea, weakness, fatigue and possible collapse. Prolonged and/or repeated inhalation of airborne particulate may cause lung changes.

INGESTION: May cause gastrointestinal disturbances. Aspiration of this product into the lung may cause chemical pneumonitis which may be fatal.

REVISION DATE: 03/88
SPECIFICATION SHEET NUMBER:
COMMODITY NUMBER:CODE NUMBER: CTG04809MR8800
REPLACES SHEET: NA

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LARRY